

C 40 Preliminary data sheet



The **C 40** complements the KS AUDIO C Series with an exceptional system with unprecedented performance. Although not immediately recognisable at first glance, the **C 40** behaves like a true point-source.

Due to an ingenious arrangement of the four low-mid chassis and three mid-high drivers, the dispersion behaviour is particularly even in the near and far field and thus hardly sensitive to feedback. The use of FIR filters in the F MOD controller also ensures full level and phase linearity, ensuring accurate impulse behaviour and maximum intelligibility. And that with huge power reserves that are rarely needed. This makes the **C 40** suitable not only for loud live concerts but also for very critical theatre halls.

The KS AUDIO controller amplifiers TA 4D provide 2000W to the four 10" chassis and 400W to the three 1.75" ring radiators. The peak power is over 6000W!

Both the 10" high efficiency drivers with 3" voice coils and the 1.75" ring radiators have powerful, lightweight neodymium magnets. The ring diaphragms of the drivers are made of a special plastic foil that produces significantly less distortion than comparable titanium diaphragms.

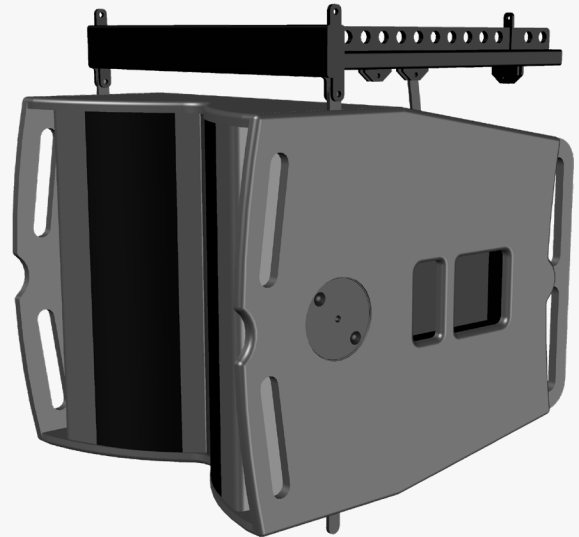
What is special about the **C 40** is its vertical alignment with the audience:

The inclination angle can be easily adjusted at the back, allowing the element to be aimed precisely at the audience. This can be done either downwards or upwards, the latter often being necessary for halls with an ascending spectator space as in many theatres but it is also very useful for beaming sound to balconies.

The opening angle can be adjusted to the listening area in no time. The 3 cylindrical wave emitters can be mechanically adjusted so that the MHF unit can have a vertical beam opening angle between 0° and 20°.

It is also possible to use several elements directly on top of each other, whereby the vertical beam steering of the **C 40** drastically reduces harmful interferences in the high frequency range.

In combination with the KS AUDIO C WH subwoofers, a very powerful and far-radiating PA system can be set up in just a few steps. The **C 40** is suitable for both normal stacking and flying mounting with the QuickLock flying adapter.



Point-source



0° - 20° variable vertical beamsteering



90° horizontal coverage



Optimized impuls-response



Linear phase and frequency response



2-Way active



Over 6000W of peakpower



144dB peak SPL



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With KS AUDIO T SUB and C SUB infra subwoofers, a fourth active way can be successfully added, instantly creating the "Wall of Sound" feeling.

Both the C WH and C SUB have the CP RIG rigging hardware that allows the **C 40** to be stacked directly on these subwoofers or flown to the subwoofers.

As with all KS AUDIO systems, the cabinet construction is made of birch plywood with an extremely robust anthracite-coloured PU coating.

The complete horn front serves for even sound conduction and is also made of low-resonance birch multiplex panels. Three curved steel protection grilles are also features of this high-quality product.

SPECIFICATIONS

Frequency response	75 - 20.000Hz ± 3 dB (40Hz @ -10dB)
F MOD / D MOD low cut modes	OFF / 70 / 100 / 120Hz
Max. SPL - 1m. free field	144dB
Nominal horizontal dispersion	75° - minimum drop-off to 90°
Vertical dispersion	manual adjustable between 0° and 20°
Transducers	LF: four 10" ND cone - 3" voice-coil HF: three 1.75" ring diaphragm 1" throat ND compression driver
Acoustic Principle	LF: bass-reflex - phase correcting waveguides / phase-plugs HF: cylindrical line emitter with mechanical variable beam-steering
Power handling AES RMS / peak	LF: 2800W / 5600W HF: 240W / 2000W
Cross-over	Active 1200Hz Phase Linear Bessel
Nominal impedance	LF: 2 Ω HF: 5.6 Ω
Connectors	Two speakON NL4

DIMENSIONS AND WEIGHTS

